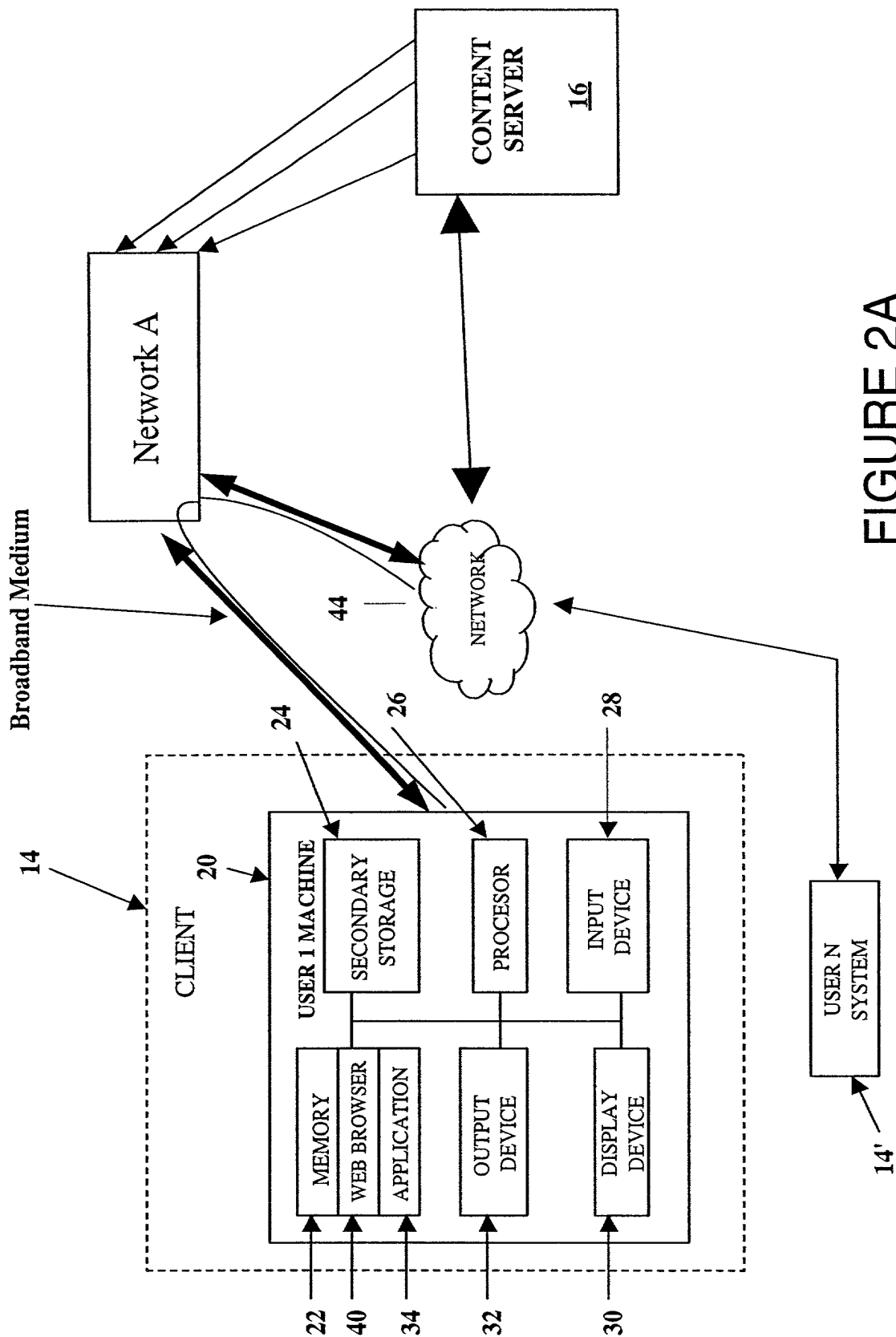


FIGURE 1



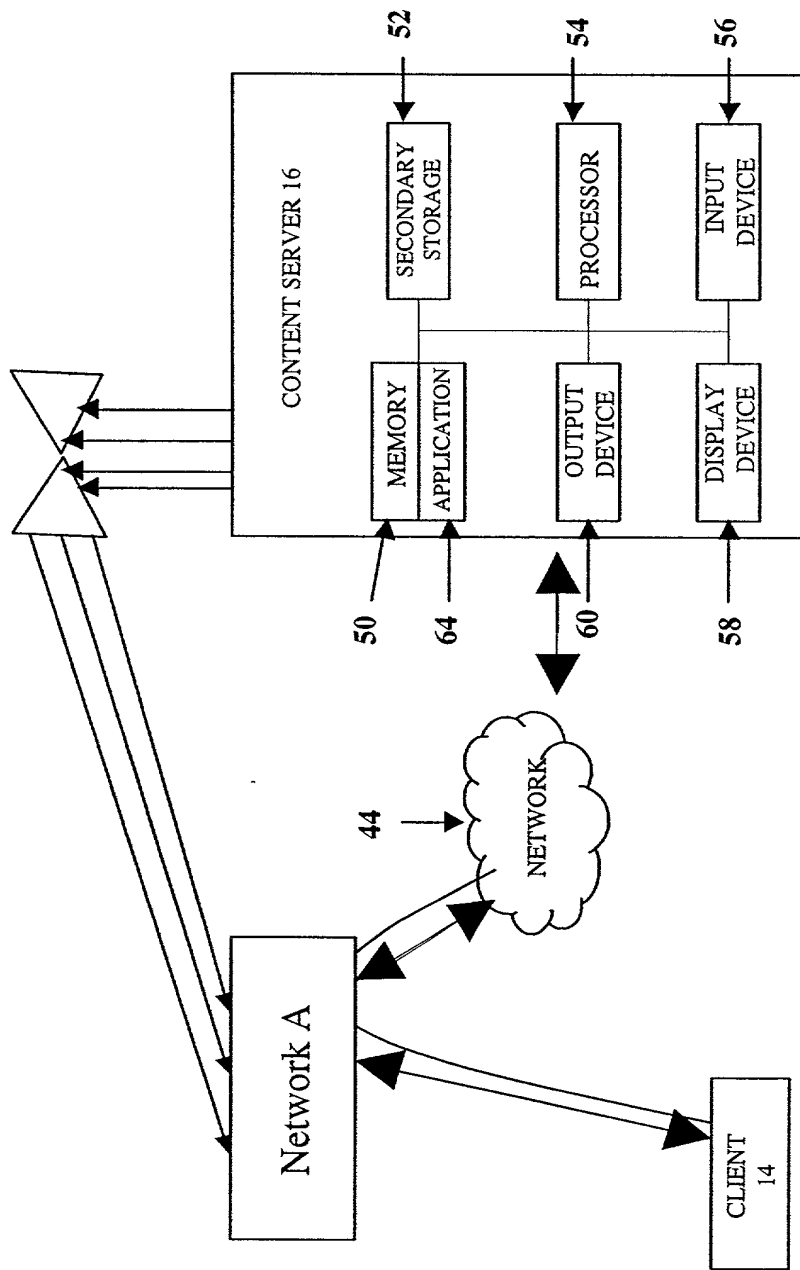


FIGURE 2B

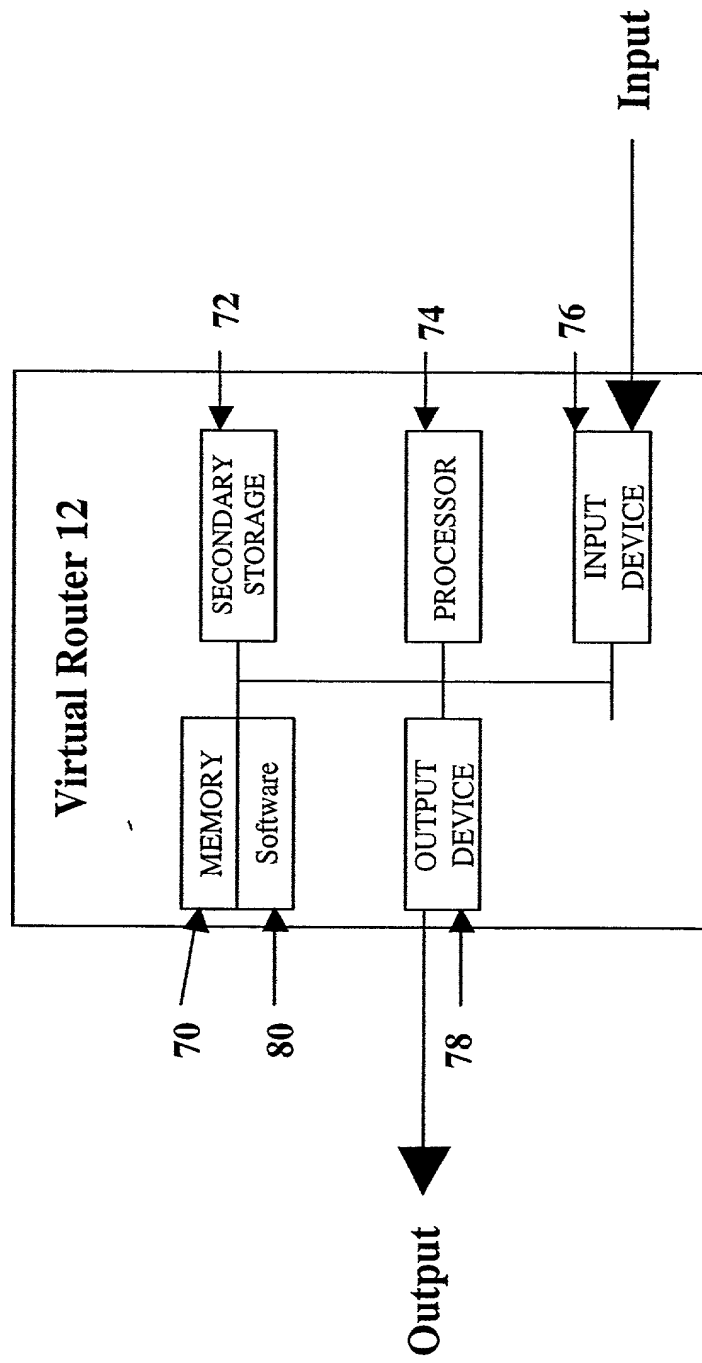


FIGURE 2C

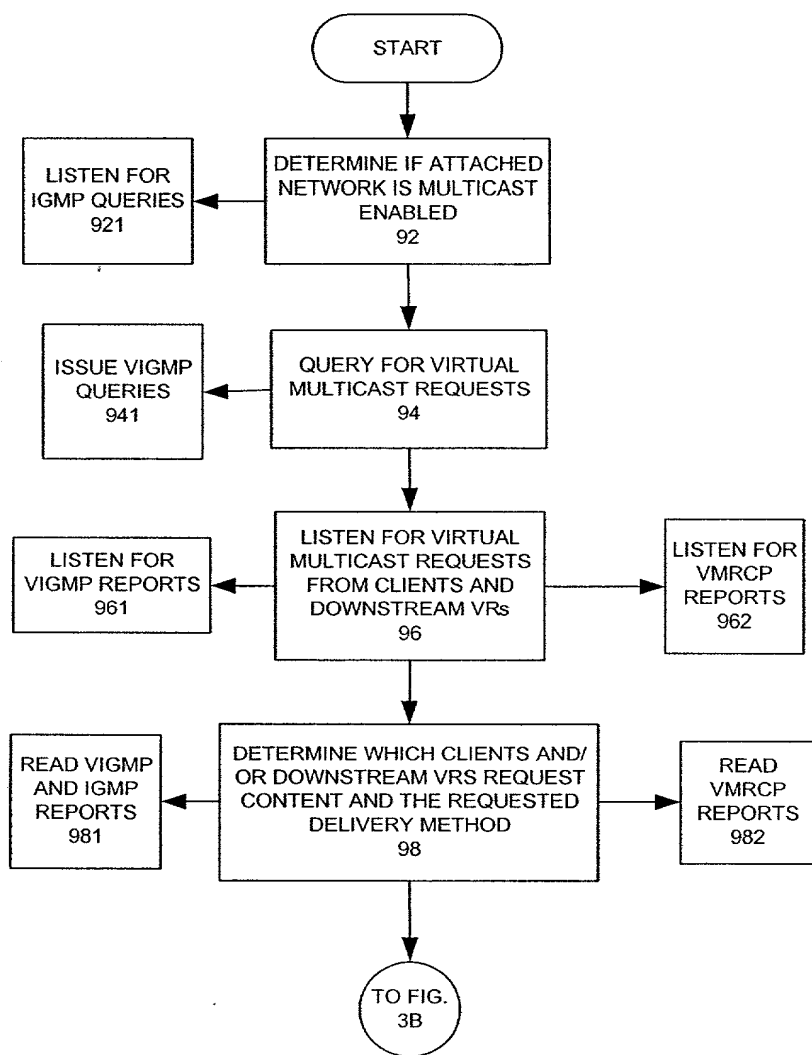


FIGURE 3A

FROM
FIG. 3A

BUILD TABLE OF
REQUESTING CLIENTS
AND VIRTUAL ROUTERS
100

BUILD VCT FILE
1001

SELECT OPTIMAL
UPSTREAM VIRTUAL
ROUTER
102

DETERMINE
ROUTER LOAD AND
ROUND TRIP TIME
1021

FORWARD MULTICAST
REQUEST TO UPSTREAM
VIRTUAL ROUTER
104

TURN ON
MULTICAST FLAG
IN VCT FILE
1041

RECIEVE CONTENT
106

REPLICATE AND ADDRESS
PACKETS PER TABLE
108

READ VCT FILE FOR UNICAST
CLIENTS, VRS AND ADDRESS
1081

TRANSMIT PACKETS TO
REQUESTING MC CLIENTS
AND UC CLIENTS AND
DOWNSTREAM VR(S)
110

END

FIGURE 3B

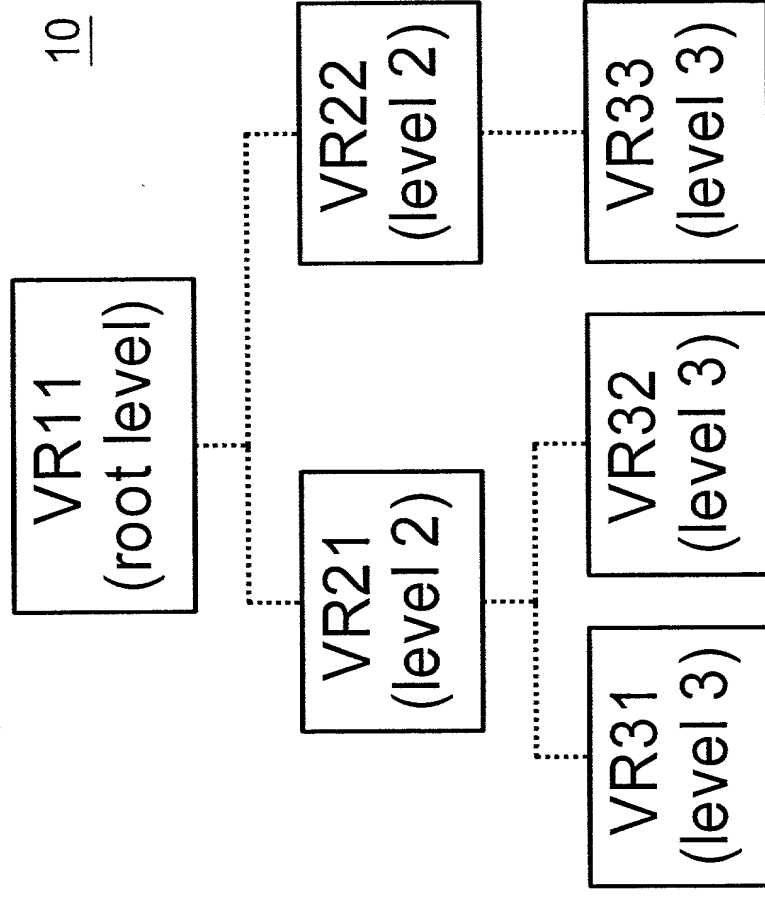


FIGURE 4

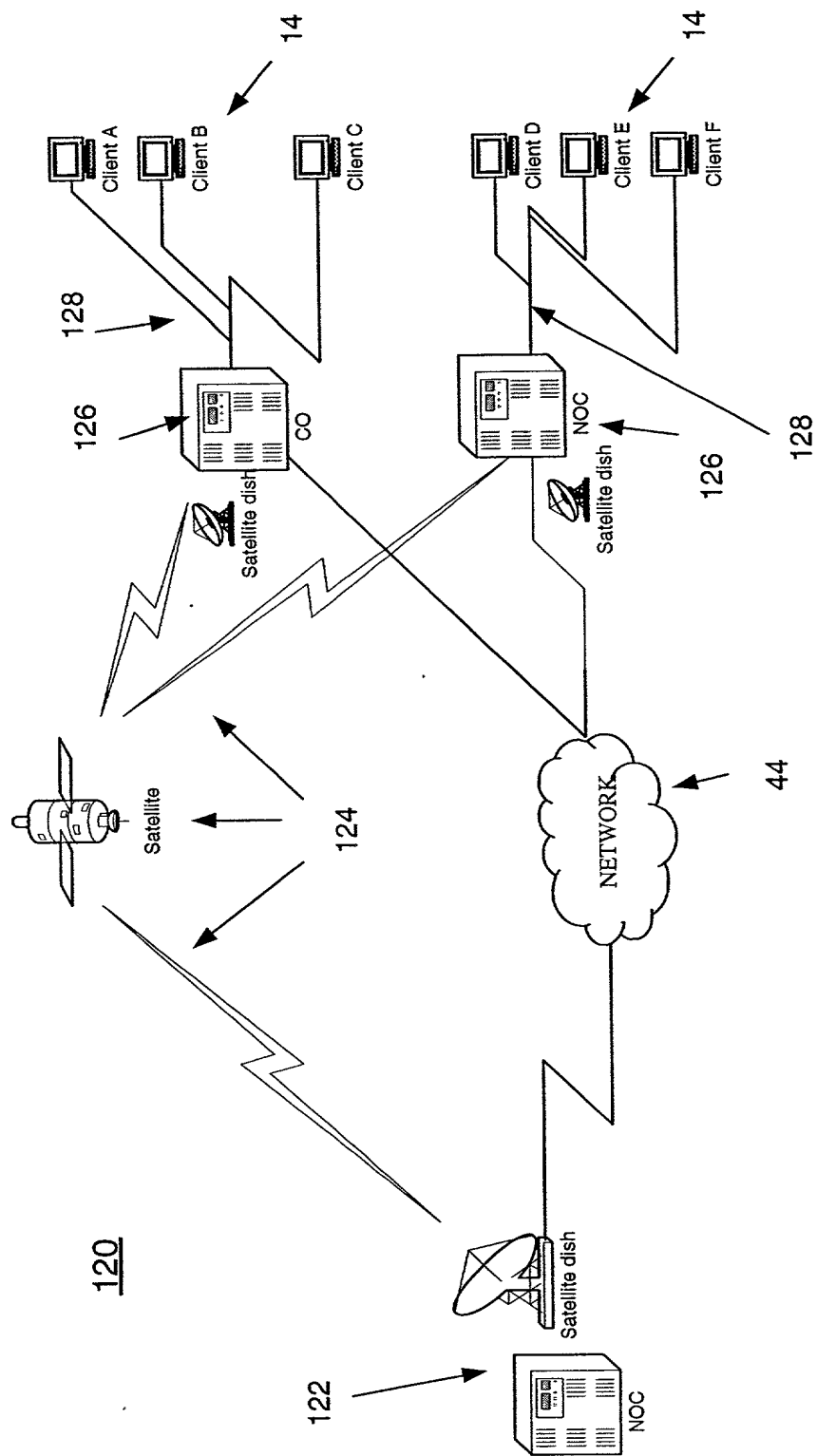


FIGURE 5A

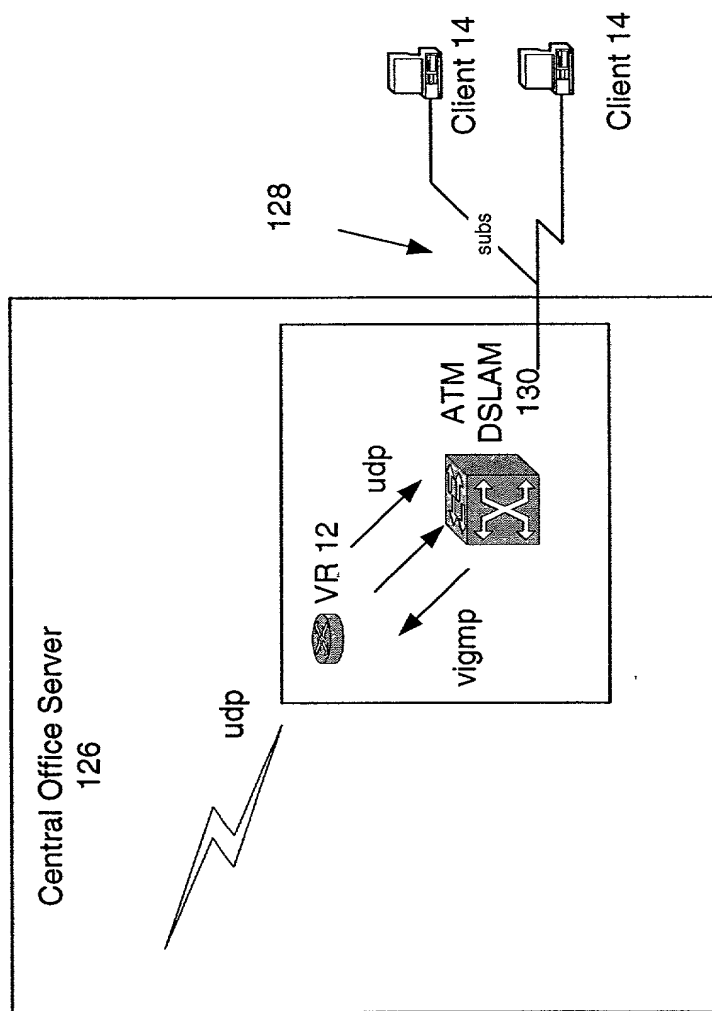


FIGURE 5B

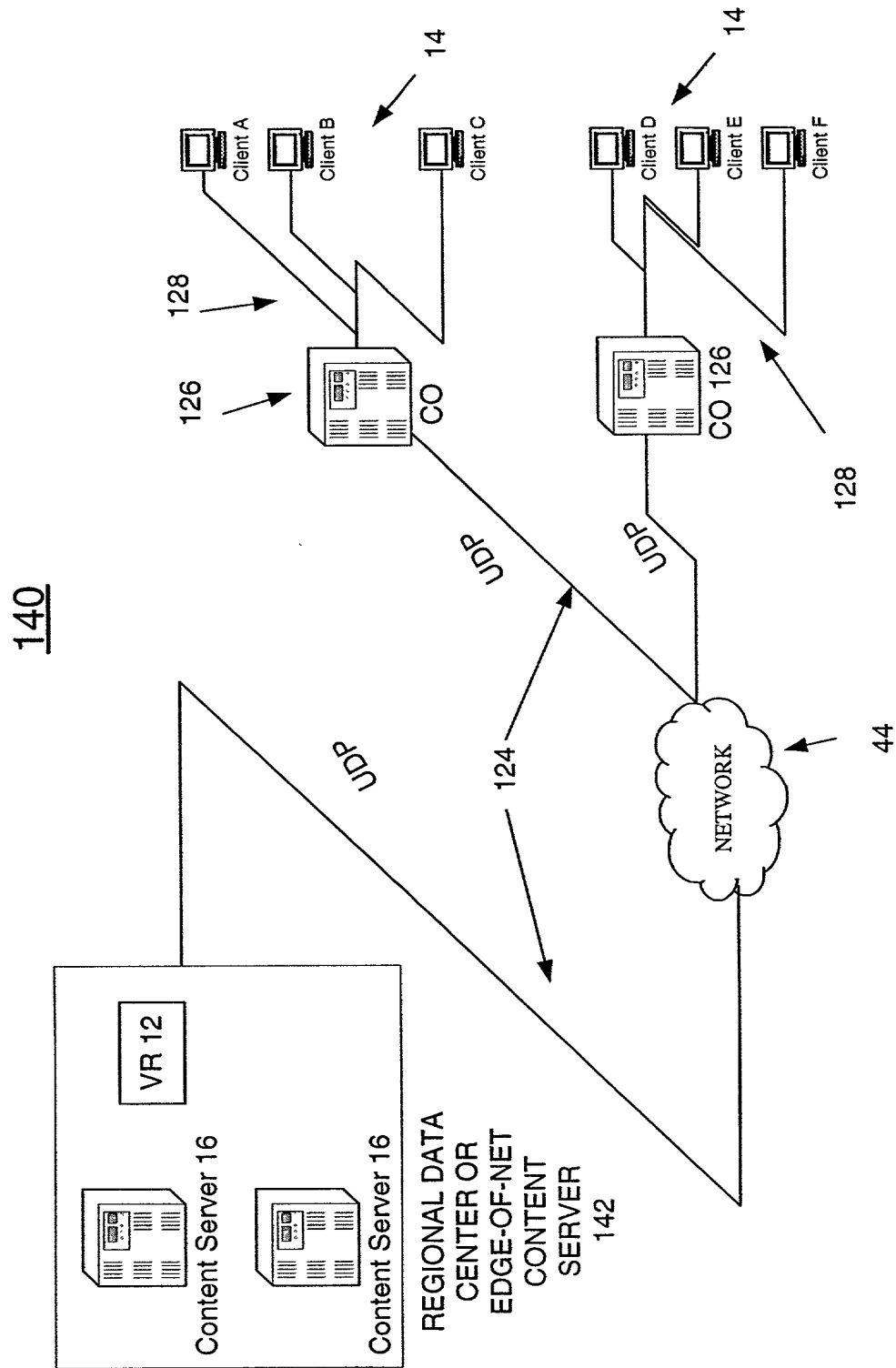


FIGURE 6

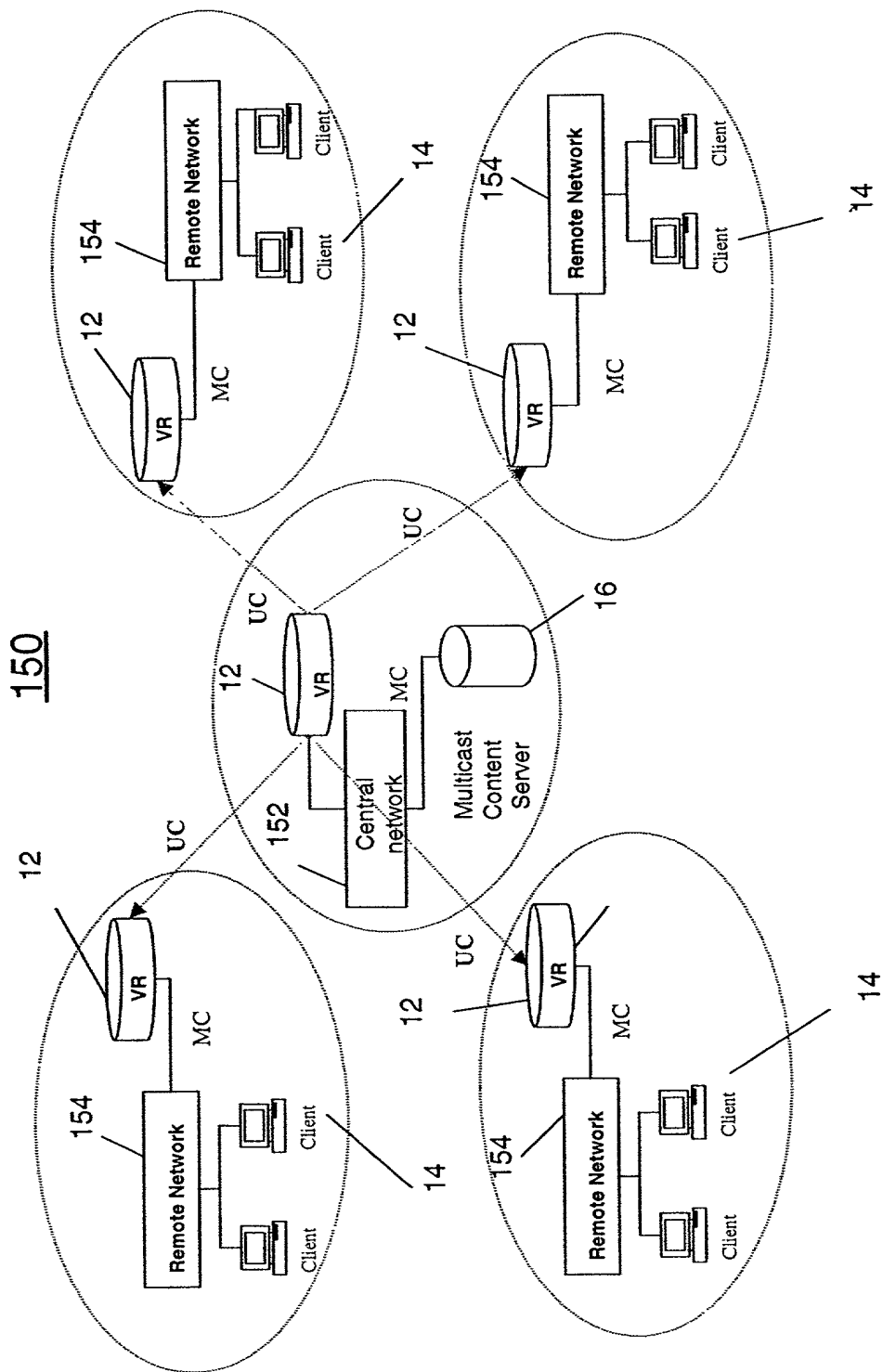


FIGURE 7

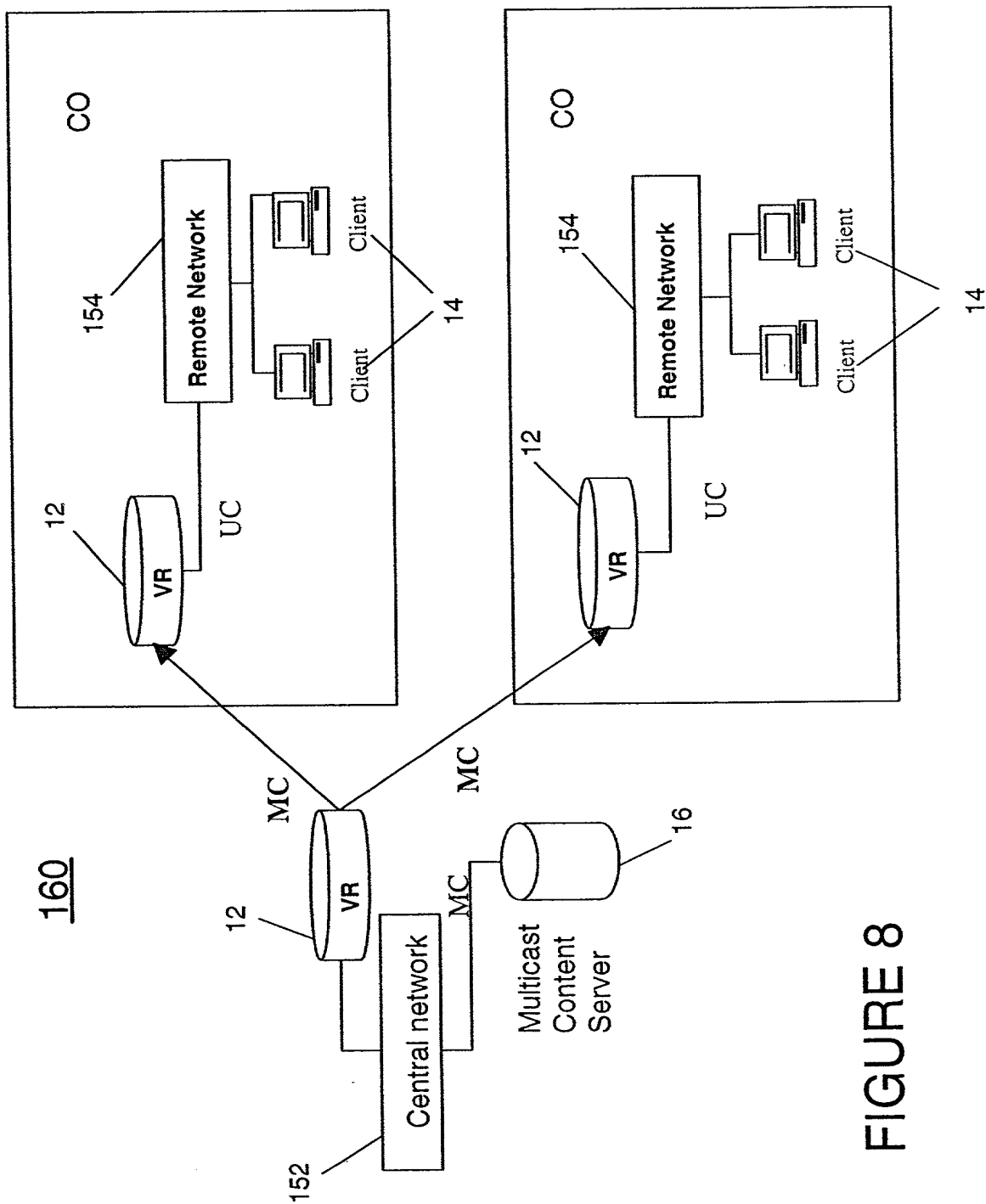


FIGURE 8